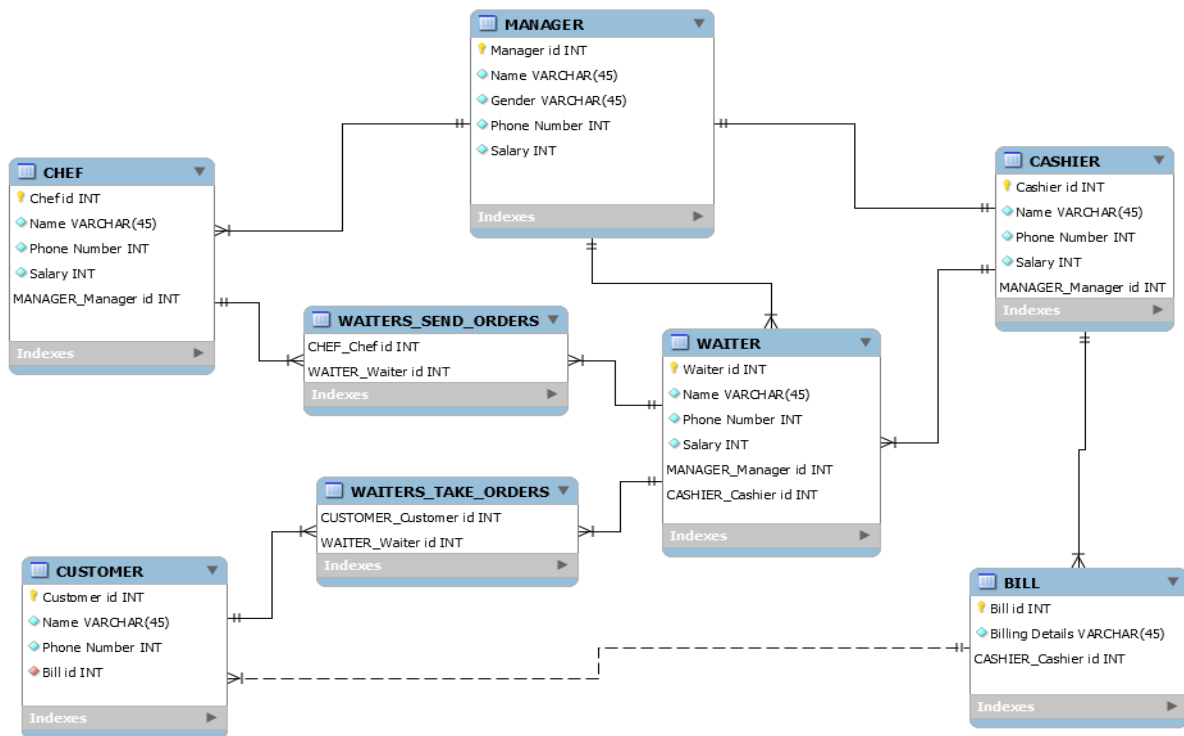


DBMS ASSIGNMENT 2

1. show cased two many to many relationships between customer and waiter and waiter and chef.

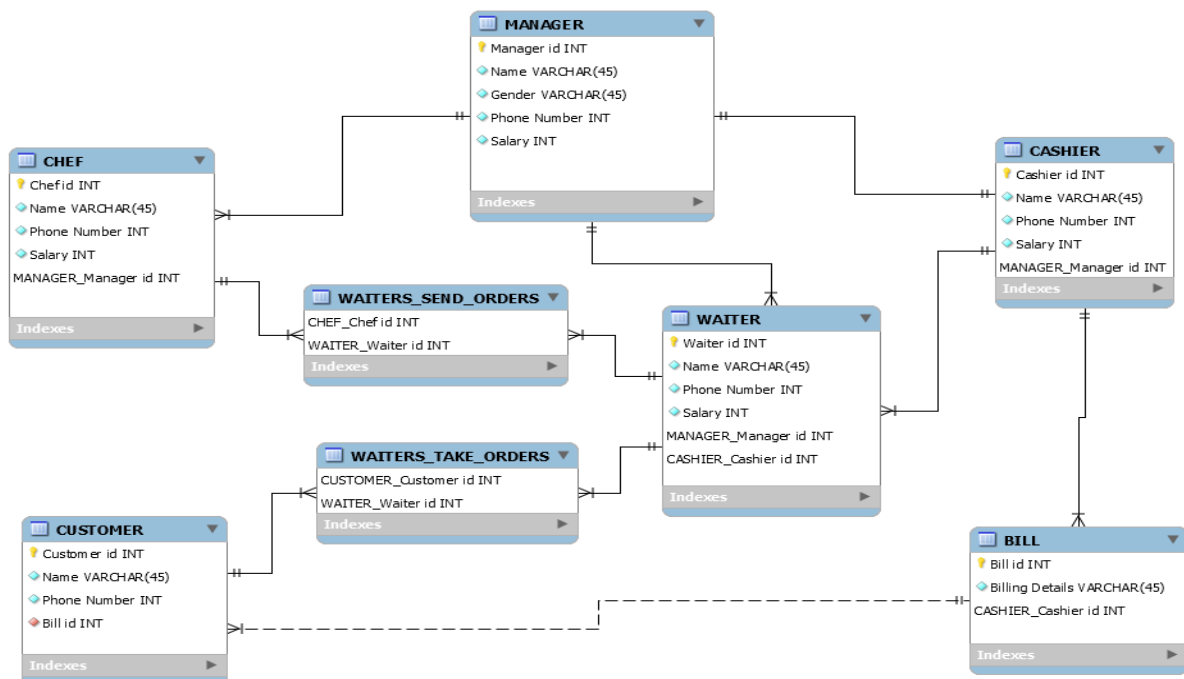


2. **weak entities:** waiters_take_orders, waiters_send_orders.

Composite keys:

1. In chef entity> chef id and manager_manager id (primary keys).
2. In waiters_send_orders entity> chef_chef id and waiter_waiter id (primary keys).
3. In waiters_take_orders entity> customer_customer id and waiter_waiter id (primary keys).
4. In waiter entity> waiter id, manager_manager id, cashier_cashier id (primary keys).
5. In cashier entity> cashier id and manager_manager id (primary keys).

6. In bill entity> bill id and cashier_cashier id (primary keys).



3. Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.

Insert values in manager table:

The screenshot shows a SQL query window with the following statements:

```

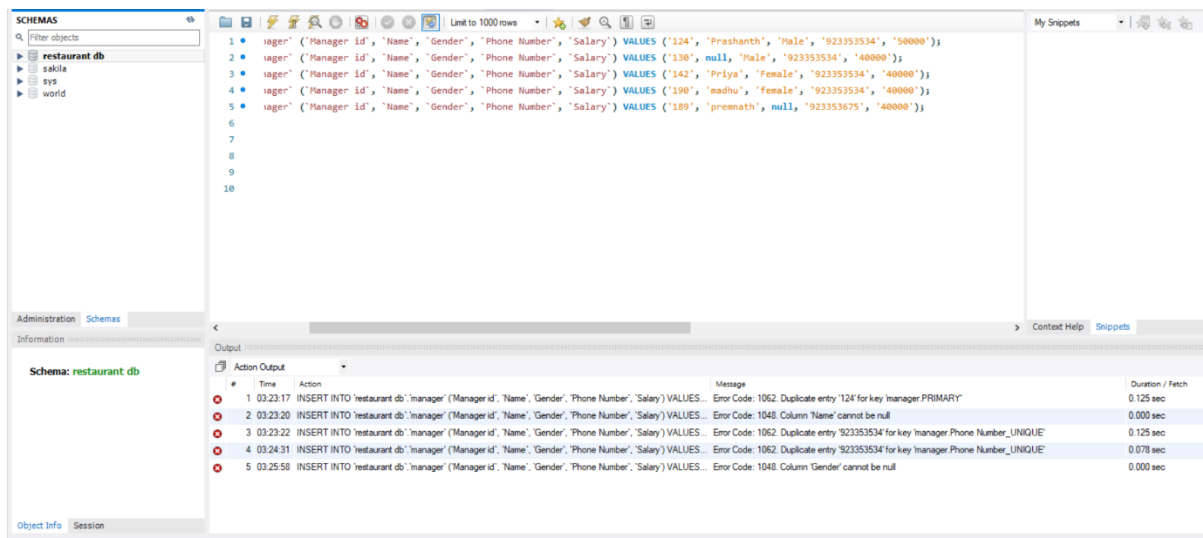
1. insert ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES ('124', 'suresh', 'Male', '923353534', '40000');
2. insert ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES ('125', 'srinivas', 'Male', '923393534', '40000');
3. insert ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES ('126', 'kumar', 'Male', '923353534', '40000');
4.

```

The output window shows the following results:

#	Time	Action	Message	Duration / Fetch
1	03:10:51	INSERT INTO 'restaurant db'..manager ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES...	1 row(s) affected	0.203 sec
2	03:12:03	INSERT INTO 'restaurant db'..manager ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES...	1 row(s) affected	0.188 sec
3	03:12:57	INSERT INTO 'restaurant db'..manager ('Manager id', 'Name', 'Gender', 'Phone Number', 'Salary') VALUES...	1 row(s) affected	0.391 sec

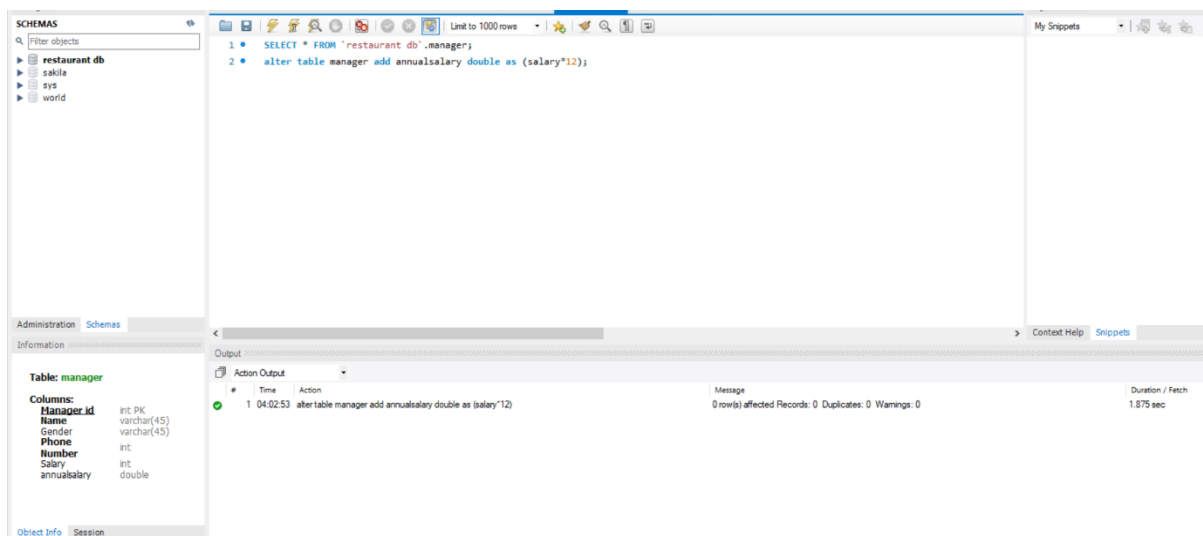
Checking primary key, unique not null and default constraints:



4. Derived attribute:

Query:

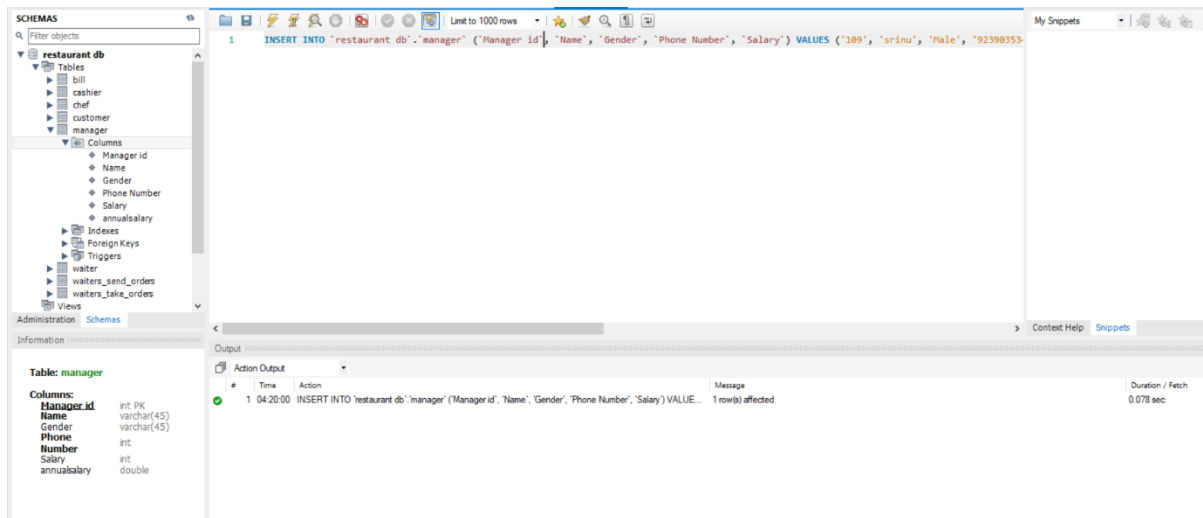
alter table manager add annual salary double as (salary*12);



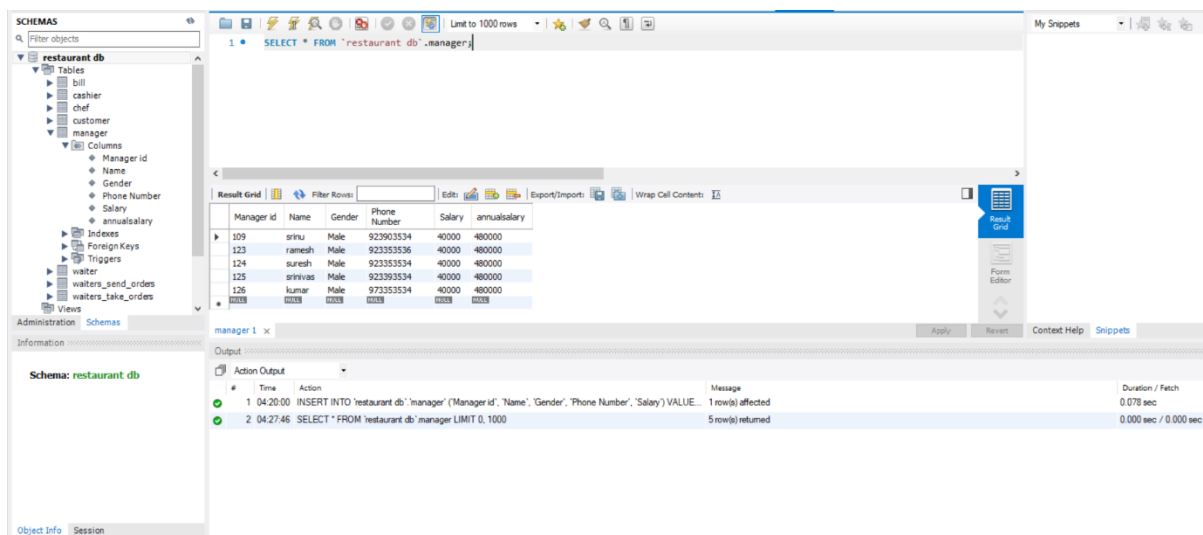
Insertion:

Insert into manager (manager id, name, gender, phonenumber, salary, annual salary) values (109, 'srinu', male, 923906543, 40000);

Output:



Result:



5. Inserting tuples into dependant table of a foreign key constraint:

In customer entity> bill_id attribute is dependant on bill_id attribute of BILL entity so if we insert tuples into bill id attribute which is foreign key of bill entity.

Output:

SCHEMAS

Filter objects

restaurant db

- Tables
 - bill
 - cashier
 - chef
 - customer
 - Columns
 - Customer id
 - Name
 - Phone Number
 - Bill id
 - Indexes
 - Foreign Keys
 - Triggers
 - manager
 - Columns
 - Manager id
 - Name
 - Gender
 - Phone Number
 - Salary

Administration Schemas

Information

Schema: restaurant db

Object Info Session

Limit to 1000 rows

```
1 SELECT * FROM 'restaurant db'.customer;
2 INSERT INTO 'restaurant db'.customer ('Customer id', 'Name', 'Phone Number', 'Bill id') VALUES ('456', 'vijay', '936273523', '1123');
3
```

My Snippets

Output

#	Time	Action	Message	Duration / Fetch
1	04:42:59	SELECT * FROM 'restaurant db'.customer LIMIT 0, 1000	0 row(s) returned	0.125 sec / 0.000 sec
2	04:43:14	SELECT * FROM 'restaurant db'.customer LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
3	04:44:46	INSERT INTO 'restaurant db'.customer ('Customer id', 'Name', 'Phone Number', 'Bill id') VALUES (456, 'v...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('restaurant db'.customer...	0.235 sec
4	04:44:50	INSERT INTO 'restaurant db'.customer ('Customer id', 'Name', 'Phone Number', 'Bill id') VALUES (456, 'v...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('restaurant db'.customer...	0.062 sec
5	04:44:50	INSERT INTO 'restaurant db'.customer ('Customer id', 'Name', 'Phone Number', 'Bill id') VALUES (456, 'v...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('restaurant db'.customer...	0.031 sec

END